

## **ABSTRACT**

A docking station for one or more x-ray detectors is disclosed and designed to secure an x-ray detector when not in use to limit exposure of an x-ray detector to drops, jars, and other potentially damaging incidents. The docking station may be equipped to regulate the temperature of a stored x-ray detector. Thermal regulation can be achieved passively or actively using convection, conduction, radiation, and other thermal transference principles. The docking station may also include an electronic interface that communicates with a stored x-ray detector such that thermal regulation may be achieved dynamically and responsively. The docking station may be free-standing or wall-mounted. The docking station may be remote from or integrated with an x-ray scanner. The docking station may also be equipped to charge/re-charge batteries of a stored x-ray detector.